

síSTEM ◀



SOLAR
WATER
HEATER

&

SOLID
FUEL
BOILER



4 Seasons

www.sistemtubular.com



About Us

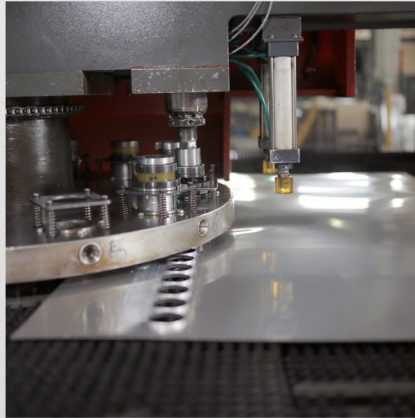
Sistem Enerji Uretim San Tic Ltd, started its activities in the production sector, in 1994 under the leadership of Nazım ÇİMEN, the founder partner who wanted to combine his experiences in the field of Mechanical Engineering with his ideals, and carried on its work under the name of "Sistem Tubular" brand.

Sistem Enerji Uretim San Tic Ltd. is the first company in Turkey which has started the vacuum tube solar water heater instead of flat plate solar energy. Innovations not limited to this, today's pressurized solar water heater is created by the ongoing R & D works, and this product has been internationally patented.

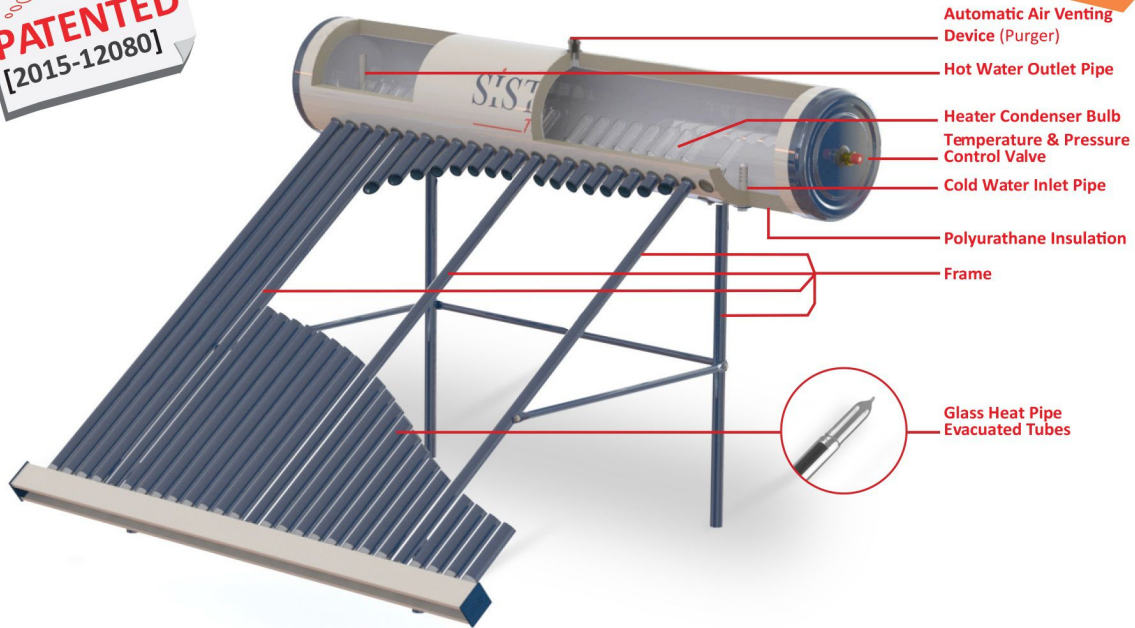
Our company which is frequently mentioned with its investments, is the biggest shareholder and founding partner of Solar-san Vacuum Glass Tube Production San Tic A.S company which produces vacuum glass tube. Sistem Tubular has 30.000 units of solar water heater and 2000 units of solid fuel boiler production capacity as well as. Investments are not limited to Turkey. By establishing a solar water heater factory in Mexico with annual capacity of 30,000 units, we continue to create jobs both at home and abroad.

Our company has created a team of engineers in the factory that uses advanced technology to carry out innovative designs. In this respect, we have the opportunity to develop, produce and present our products to consumers in a multi-purpose and functional manner.

"Sistem Tubular" continues to grow with its widespread domestic and international sales networks.



HEAT PIPE INTEGRATED PRESSURIZED Solar Water Heater



This product combines the ease of use of closed-loop pressure systems with water capacity of open-loop unpressurized systems. The most important feature that separates this product from the others is that it works without having any equipment in the reservoir such as double-wall, serpentine and, heat-exchanger. In order to achieve this, a special designed sealing ring has been developed to resist against pressure.

The cold tap water, entering reservoir, is heated by natural convection thanks to vacuum tube and glass heat pipe, which are specially designed, and becomes ready to use as hot water.

A pressure reducer is placed in the inlet of the system, designed to work pressure of max 4 barsh to ensure comfortable hot water usage, to protect it from instantaneous pressure fluctuations in the city water supply. In addition, a temperature and pressure control valve is placed to prevent overheating of the system in summer.

The inner surface of the hot water reservoir is coated with titanium enamel so that the system is hygienic and resistant to corrosion.

Our new frame, having a modern and ergonomic design, is safe against environmental effects such as snow load, wind, etc.

The frame provides ease of assembly. So it can be installed easily on any kind of ground or platform.

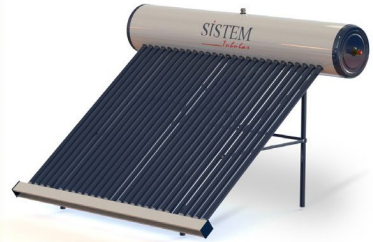
In this system, unlike non pressurized one, it is not necessary to set it up to raise the level difference. It can also be installed in the garden instead of the roof at home to prevent visual pollution. It is also ideal for the top floors of the apartments.



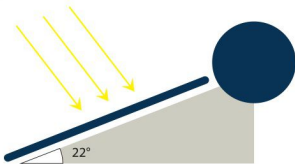
HEAT PIPE INTEGRATED PRESSURIZED Solar Water Heater



16 Tubes

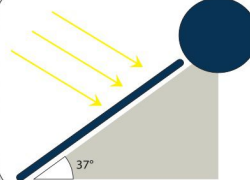


24 Tubes



H Model

It should be preferred in geographies where the latitude is low and the sun rays are steep. Provides higher performance due to 22° angle.



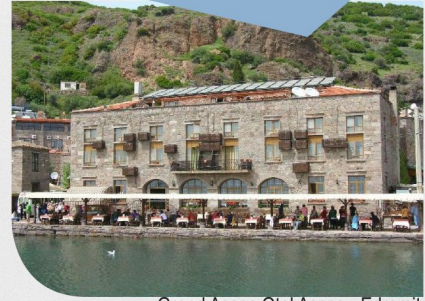
V Model

It should be preferred in geographies where the latitude is high and the sun rays are inclined. Provides higher performance due to 37° angle.

Model	Frame Angle	Absorber Tube Type	Tube Dimensions	HxWxL (mm)	Capacity (lt/day)	Inner Tank Material and Wall Thickness	Inner Tank Coating	Boiler Net Weight	Max Operating Pressure	Test Pressure	Gross / Aperture Area (m ²)	Insulation	Insulation Layer Thickness
Ephesus 16-H	22°	Heat Pipe	Ø47x1930 16 pcs	1225x1695x2085	140 lt	Enamelled Sheet	Titanium Enamel Coating	42 kg	4 bar	6 bar	2,37 / 1,16	40 kg/m ³ Polyurethane (CFC free)	50mm
Ephesus 24-H	22°	Heat Pipe	Ø47x1930 24 pcs	1225x1695x2085	200 lt	Enamelled Sheet	Titanium Enamel Coating	54 kg	4 bar	6 bar	3,4 / 1,73	40 kg/m ³ Polyurethane (CFC free)	50mm
Ephesus 16	37°	Heat Pipe	Ø47x1930 16 pcs	1625x1695x1825	140 lt	Enamelled Sheet	Titanium Enamel Coating	42 kg	4 bar	6 bar	2,37 / 1,16	40 kg/m ³ Polyurethane (CFC free)	50mm
Ephesus 24	37°	Heat Pipe	Ø47x1930 24 pcs	1625x2230x1825	200 lt	Enamelled Sheet	Titanium Enamel Coating	54 kg	4 bar	6 bar	3,4 / 1,73	40 kg/m ³ Polyurethane (CFC free)	50mm

MANIFOLD Solar Heaters

It is preferred in places where there is a lot of hot water consumption such as mass housing, institution and hotel by adding them together in the form of a series according to usage need.



Grand Assos Otel Assos - Edremit



Model	Frame Angle	Absorber Tube Type	Tube Dimensions (mm) and pcs	HxWxL (mm)	Inner Tank Material and Wall Thickness	Dry Assembly Weight	Gross / Aperture Area m²	Outer Material	Insulation Layer Spec.	Insulation Layer Thickness
SY4844	44°	Evacuated Tube	Ø47x1800 48 pcs	1877x3730x192	AISI 304L Stainless Steel 0.50 mm	105 kg	5,1 / 3,68	Ral9002 Painted Galvanized Steel	40 kg/m³ Polyurethane (CFC Free)	35mm

GLASS HEAT PIPE EVACUATED TUBE

What is glass heat pipe evacuated tube?

How it works?

Glass heat pipe evacuated tube also consists of a two layers of glass with a vacuum in between the layers like conventional solar vacuum tubes. On the other hand, its difference from conventional vacuum tubes is that the open end of the tube is closed using a special geometry like a dome shape to increase resistant to axial loads in pressurized reservoir systems. This enclosed area, which is inside the inner tube, is vacuumed and a heat transfer fluid is injected into it.

The special selective coating on the outer surface of the inner tube changes solar radiation into heat then absorbed solar radiation is transferred to a heat transfer fluid within the tube. This liquid quickly heats up, changes its form to gas and rises to the top. It reaches the dome shaped condenser in the usage water reservoir. Since the outer surface of the condenser is in contact with the relatively colder usage water in the reservoir, the heat transfer fluid in the form of gas condenses on the inner surface of the condenser. The condensing chemical returns back in droplets to the sun-exposed base of the tube. As long as the system is heated by the sun, the circulation continues.

Advantages

Contrary to conventional vacuum tubes, there is no water circulation inside the tube, so calcification problem due to water is prevented.

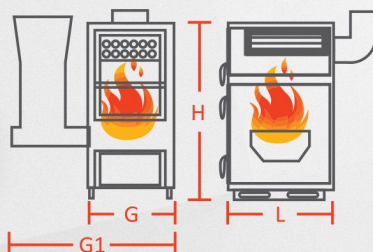
Due to no water circulation, there is no risk of freezing or breaking the tube in winter.



Property	Value & Unit
Length	1930 mm
Outer tube diameter	47 mm
Inner tube diameter	37 mm
Thermal expansion	3.3x10 ⁻⁶ °C ⁻¹
Material	Borosilicate glass 3.3
Surface coating material	AL-CU-SS selective
Light absorption rate	96%
Emission rate	4-5 %
Vacuum	P<0.004 Pa
Empty tube temperature	>200°C
Heat loss coefficient	<0.8 W/m² .K
Reflection ratio	7 % (100 °C)

SOLID FUEL Boilers

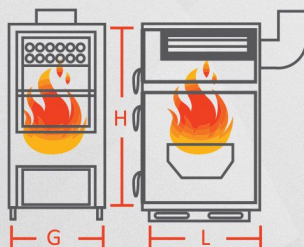
Three Pass
Auto Heat-Controller
Flame Rotative
High Efficiency
Digital Board
Modern Design
Auto-Feeding



TYPE	CAPACITY		G (mm)	G1 (mm)	L (mm)	H (mm)	Spiral Disassembly Distance (mm)	Diameter of Chimney (mm)	Boiler Out-In	Expansion Out/In	Operating Pressure (Bar)
	Kcal/h	Kw									
ELT 3G/S-30	30.000	35	450	1130	770	1360	700	130	1"	3/4"	3
ELT 3G/S-40	40.000	47	625	1325	770	1410	750	130	1"	3/4"	3
ELT 3G/S-50	50.000	58	625	1325	880	1450	750	130	1 1/4"	3/4"	3
ELT 3G/S-70	70.000	81	720	1365	1000	1550	850	170	1 1/2"	1"	3

*Our company has right to make changes without prior notice due to technological advances.

Three Pass
Auto Heat-Controller
Flame Rotative
High Efficiency
Digital Board
Modern Design



TYPE	CAPACITY		G (mm)	L (mm)	H (mm)	Diameter of Chimney (mm)	Boiler Out-In	Expansion Out/In	Operating Pressure (Bar)
	Kcal/h	Kw							
ELT 3G/35	35.000	41	670	720	1350	130	1"	3/4"	3
ELT 3G/45	45.000	53	670	810	1350	130	1 1/4"	3/4"	3

*Our company has right to make changes without prior notice due to technological advances.

All types include fan and control panel.

ELT 3G 35, 45 types and ELT 3G/S 30, 40 and 50 types INCLUDES recirculation pumps. .

ELT 3G/S 70 type DOES NOT INCLUDE recirculation pump.

ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Universal GmbH
Certification Services
This certificate is granted to the organization:
Sistem Enerji Üretim Sanayi Ve Tic. Ltd. Sti.
Organize Sanayi Bölgesi 8.Sk. No:17 Nazilli / Aydın / Turkey
by review of SA1.007288 numbered report for the scope
The manufacturing, sales and marketing of solar energy & water heating systems
to certify that an environmental management system in accordance with standard's clauses is established and being implemented

DIN EN ISO 14001:2015
Certificate No : EMS 0616 007288
Date of issue : 2017 - 06 - 12
Expiry Date : 2018 - 06 - 17
Certification Period : 3 Years (2nd Year)



QUALITY MANAGEMENT SYSTEM CERTIFICATE

This certificate is granted to the organization:
Sistem Enerji Üretim Sanayi Ve Tic. Ltd. Sti.
Organize Sanayi Bölgesi 8.Sk. No:17 Nazilli / Aydın / Turkey
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The manufacturing, sales and marketing of solar energy & water heating systems
to certify that a quality management system in accordance with standard's clauses is established and being implemented

DIN EN ISO 9001:2015
Certificate No : QMS 0616 007288
Date of issue : 2017 - 06 - 12
Expiry Date : 2018 - 06 - 17
Certification Period : 3 Years (2nd Year)



MARKA YENİTİMİ

Sistem Enerji Üretim Sanayi Ve Ticaret Limited
Marka Sahibi : **SİSTEM ENERJİ ÜRETİM SANAYİ VE TİCARET LİMİTEDİ**
Yeni Sanayi Sitesi D2 Blok No:8-9-10 NAZILLI AYDIN
Emililer : 11 37
Hizmetler:

İş bu Marka ilk defa 20/06/2003 tarihinde tescil edilmiş olup 556 sayılı Markaların Korunması Hakkında Kanun Hükmünde Kararnamenin 48. Maddesi gereğince 20/06/2013 tarihinden itibaren ON YIL süreyle yenilenmiştir.

TÜRK PATENT ENSTİTÜSÜ

Certificate of Conformity For Goods Exported to the Kingdom of Saudi Arabia

Certificate No: DMFT-Human (ASTRA) Yastogor
Date of Issue: 2017-06-12
We, INTERTEK, certify that the goods listed below are declared on the attached invoice have been subjected to laboratory tests prior to export and found to be in compliance with the relevant Technical Regulations and standards in the Kingdom of Saudi Arabia. The relevant technical regulations and standards are listed in the table below. The certificate is valid for a period of 12 months from the date of issue.

Part of Certificate	Item Name and Description	Quantity	Unit	Standard Ref. No.	Manufacturer's Name and Address
1. Importer	UNIT 3, 314 SECOND STREET, AL-KHAYMA, AL-KHAYMA, SAUDI ARABIA	25 SET	SET	9702EC	SISTEM ENERJİ ÜRETİM SAN. TİC. LTD. STİ.
2. Exporter	ORGANIZE SANAYİ BÖLGESİ 8. SK. NO:17 NAZILLI AYDIN	25 SET	SET	9702EC	SISTEM ENERJİ ÜRETİM SAN. TİC. LTD. STİ.
3. Consignee	UNIT 3, 314 SECOND STREET, AL-KHAYMA, AL-KHAYMA, SAUDI ARABIA	25 SET	SET	9702EC	SISTEM ENERJİ ÜRETİM SAN. TİC. LTD. STİ.
4. Manufacturer	ORGANIZE SANAYİ BÖLGESİ 8. SK. NO:17 NAZILLI AYDIN	25 SET	SET	9702EC	SISTEM ENERJİ ÜRETİM SAN. TİC. LTD. STİ.

Certificate

No. 25170512.5EU072

Certificate's Holder:
Certification ECM Mark:

Product: Vacuum Tube Solar Systems
Brand Name: SB BY 15, SB BY 20, SB BY 24, SB BY 15, SB BY 20, SB BY 24

Verification to:

Standard: EN 12976-1:2006
related to CE Directive(s): 2014/68/EU (Pressure Equipment)
Remarks: The product(s) has been verified on a voluntary basis. The certificate is valid for a period of 12 months from the date of issue. The certificate is issued in accordance with the requirements of the CE Marking Regulation (EC) No 765/2008. The certificate is issued in accordance with the requirements of the CE Marking Regulation (EC) No 765/2008. The certificate is issued in accordance with the requirements of the CE Marking Regulation (EC) No 765/2008.



Date of issue 12 May 2017
Chief Manager
Nikolay Mironov

TÜRK STANDART ENSTİTÜSÜ

Bölge No: 25-170512-5EU072
İlk Veriliş Tarihi: 28-10-2004
Son Geçerlilik Tarihi: 28-10-2018
Sistem Enerji Üretim Sanayi ve Ticaret Ltd. Şti.
Organize Sanayi Bölgesi 8. Sk. No:17 Nazilli Aydın/Türkiye
Firmamız Adresi: 8105
Sicil No: 25170512-5EU072



17.12.2006 20.10.2012 YETKİLİ SERVİSLER - GÖNİS FİRMLARI SİSTEMLERİ İÇİN MÜHÜRLEME STANDARTINDA
UYGULANAN YETKİLİ SERVİS
SİSTEM ENERJİ ÜRETİM SANAYİ VE TİCARET LTD. ŞTİ. YETKİLİ SERVİS (108620)



EnTe Certification Machine S.p.A.
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